**In the Claims**

Please amend the claims as follows. A detailed listing of all claims that are, or were, in the application is presented below. Changes in the currently amended claims are shown by strikethrough (for deleted matter) and underlining for added matter.

1. (Currently Amended) A fabric-based sensor for transmitting electrical impulses or other vital signs comprising:

(a) a fully-conductive fabric of ~~a first~~ one or more integrated individually conductive fibers, each conductive fiber being individually conductive prior to incorporation into the fabric in the absence of a conductive coating applied to the fabric or to the fibers; and

(b) an electrical lead for connection to a ~~data output terminal~~ connector, the electrical lead comprising one of the integrated individually conductive fibers.

2. (Currently Amended) The fabric-based sensor of claim 1, further comprising a conductive paste between the fiber and the ~~data output terminal~~connector.

3. (Previously Amended) The fabric-based sensor of claim 1, wherein the individually conductive fibers of the fabric are knitted.

4. (Previously Amended) The fabric-based sensor of claim 2, wherein the individually conductive fibers of the fabric are woven.

5. (Currently Amended) The fabric-based sensor of claim 1, wherein the ~~data output terminal~~ connector is a snap connector.

6. (Currently Amended) The fabric-based sensor of claim 2, wherein the ~~data output terminal~~ connector is a snap connector.

7. (Original) A garment comprising at least one fabric-based sensor of claim 1.

8. (Original) A garment comprising at least one fabric-based sensor of claim 2.

9. (Currently Amended) A method for monitoring the vital signs or other electrical impulses of a subject comprising applying the fabric-based sensor of claim 1 to the subject and connecting the ~~data output terminal~~ connector to a monitor.

10. (Currently Amended) A method for monitoring the vital signs or other electrical impulses of a subject comprising applying the fabric-based sensor of claim 2 to the subject and connecting the ~~data output terminal~~ connector to a monitor.


Received from < > at 6/9/03 5:44:49 PM [Eastern Daylight Time]

11. (Currently Amended) A method for providing an electrical impulse to a subject comprising applying the fabric-based sensor of claim 1 to the subject, connecting the ~~data-output terminal~~ connector to an impulse-delivering device, and delivering the impulse through the sensor.

12. (Currently Amended) A method for providing an electrical impulse to a subject comprising applying the fabric-based sensor of claim 2 to the subject, connecting the ~~data-output terminal~~ connector to an impulse-delivering device, and delivering the impulse through the sensor.

13. (Currently Amended) A method for monitoring the vital signs or other electrical impulses of a subject comprising applying the fabric-based sensor of claim 1 to the subject and connecting the ~~data-output terminal~~ connector to a ~~wearable motherboard~~ sensate liner, wherein the ~~wearable motherboard~~ sensate liner is a fabric comprising: a comfort component serving as the base of the fabric; and ~~an information infrastructure component~~ a sensing component integrated within said comfort component to form the fabric, ~~the information infrastructure component being~~ wherein the sensing component is selected from the group consisting of, individually or in any combination, a penetration detection component and an insulated electrical conductive component comprising one or more individually insulated conductive fibers.

B1

14. (Currently Amended) A fabric-based sensor for transmitting electrical impulses or other vital signs comprising:

(a) a conductive fabric of one or more integrated individually conductive fibers and non-conductive fibers, each conductive fiber being individually conductive prior to incorporation into the fabric in the absence of a conductive coating applied to the fabric or to the fibers;

(b) an electrical lead for connection to a ~~data-output terminal~~ connector, the electrical lead comprising one of the integrated individually conductive fibers.

15. (Currently Amended) The fabric-based sensor of claim 14, further comprising a conductive paste between the fiber and the ~~data-output terminal~~ connector.

16. (Previously Added) The fabric-based sensor of claim 14, wherein the individually conductive fibers of the fabric are knitted.

17. (Previously Added) The fabric-based sensor of claim 15, wherein the individually conductive fibers of the fabric are knitted.



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Received from < > at 6/9/03 5:44:49 PM [Eastern Daylight Time]

18. (Previously Added) The fabric-based sensor of claim 14, wherein the individually conductive fibers of the fabric are woven.

19. (Previously Added) The fabric-based sensor of claim 15, wherein the individually conductive fibers of the fabric are woven.

20. (Currently Amended) The fabric-based sensor of claim 14, wherein the ~~data output terminal~~ connector is a snap connector.

21. (Currently Amended) The fabric-based sensor of claim 15, wherein the ~~data output terminal~~ connector is a snap connector.

22. (Previously Added) A garment comprising at least one fabric-based sensor of claim 14.

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23. (Previously Added) A garment comprising at least one fabric-based sensor of claim 15.

24. (Currently Amended) A method for monitoring the vital signs or other electrical impulses of a subject comprising applying the fabric-based sensor of claim 14 to the subject and connecting the ~~data output terminal~~ connector to a monitor.

25. (Currently Amended) A method for monitoring the vital signs or other electrical impulses of a subject comprising applying the fabric-based sensor of claim 15 to the subject and connecting the ~~data output terminal~~ connector to a monitor.

26. (Currently Amended) A method for monitoring the vital signs or other electrical impulses of a subject comprising applying the fabric-based sensor of claim 14 to the subject and connecting the ~~data output terminal~~ connector to a ~~wearable motherboard~~sensate liner, wherein the ~~wearable motherboard~~ sensate liner is a fabric comprising: a comfort component serving as the base of the fabric; and ~~an information infrastructure component~~ a sensing component integrated within said comfort component to form the fabric, ~~the information infrastructure component being~~ wherein the sensing component is selected from the group consisting of, individually or in any combination, a penetration detection component and an insulated electrical conductive component comprising one or more individually insulated conductive fibers.

27. (Currently Amended) A method for monitoring the vital signs or other electrical impulses of a subject comprising applying the fabric-based sensor of claim 15 to the subject and connecting the ~~data output terminal~~ connector to a ~~wearable motherboard~~ sensate liner, wherein the ~~wearable motherboard~~ sensate liner is a fabric comprising: a comfort component serving as



Received from < > at 6/9/03 5:44:49 PM [Eastern Daylight Time]

the base of the fabric; and ~~an information infrastructure component~~ a sensing component integrated within said comfort component to form the fabric, ~~the information infrastructure component being~~ wherein the sensing component is selected from the group consisting of, individually or in any combination, a penetration detection component and an insulated electrical conductive component comprising one or more individually insulated conductive fibers.

28. (Currently Amended) A method for delivering an electrical impulse to a subject comprising applying the fabric-based sensor of claim 1 to the subject, connecting the ~~data output terminal~~ connector to an impulse-delivering device, and delivering the impulse through the fabric-based sensor.

29. (Currently Amended) A method for delivering an electrical impulse to a subject comprising applying the fabric-based sensor of claim 2 to the subject, connecting the ~~data output terminal~~ connector to an impulse-delivering device, and delivering the impulse through the fabric-based sensor.

30. (Currently Amended) A method for delivering an electrical impulse to a subject comprising applying the fabric-based sensor of claim 14 to the subject, connecting the ~~data output terminal~~ connector to an impulse-delivering device, and delivering the impulse through the fabric-based sensor.

31. (Currently Amended) A method for delivering an electrical impulse to a subject comprising applying the fabric-based sensor of claim 15 to the subject, connecting the ~~data output terminal~~ connector to an impulse-delivering device, and delivering the impulse through the fabric-based sensor.

32. (Previously Added) The fabric-based sensor of claim 2, wherein the individually conductive fibers of the fabric are knitted.

33. (Previously Added) The fabric-based sensor of claim 1, wherein the individually conductive fibers of fabric are woven.



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